



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002
TIME: 11:40:02

Input Set : A:\050229-0287 Sequence Listing.txt
Output Set: N:\CRF3\02222002\I973945A.raw

ENTERED

3 <110> APPLICANT: University of Kentucky Research Foundation
4 GEN, Susheng
5 XIE, Mingtang
7 <120> TITLE OF INVENTION: Genetic Insulator for Preventing Influence By Another Gene
9 <130> FILE REFERENCE: 050229-0287
11 <140> CURRENT APPLICATION NUMBER: 09/973,945A
12 <141> CURRENT FILING DATE: 2001-10-11
14 <150> PRIOR APPLICATION NUMBER: 60/241,735
15 <151> PRIOR FILING DATE: 2000-10-20
17 <160> NUMBER OF SEQ ID NOS: 37
19 <170> SOFTWARE: PatentIn version 3.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 58
23 <212> TYPE: DNA
24 <213> ORGANISM: Arabidopsis thaliana
26 <400> SEQUENCE: 1
27 gaagatcttag aatatata tattcgatag aatatata tattcgcaag acccttcc 58
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 35
32 <212> TYPE: DNA
33 <213> ORGANISM: Arabidopsis thaliana
35 <400> SEQUENCE: 2
36 ggaattccat ggatcccggg tgtaattgt aata 35
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 30
41 <212> TYPE: DNA
42 <213> ORGANISM: Arabidopsis thaliana
44 <400> SEQUENCE: 3
45 gaagatctga tatcaagctt cgcaagaccc 30
48 <210> SEQ ID NO: 4
49 <211> LENGTH: 63
50 <212> TYPE: DNA
51 <213> ORGANISM: Arabidopsis thaliana
53 <400> SEQUENCE: 4
54 gaagatcttat tgtgagcgt cacaatgata attgtgagcg ctcacaattc gcaagaccct 60
56 tcc 63
59 <210> SEQ ID NO: 5
60 <211> LENGTH: 46
61 <212> TYPE: DNA
62 <213> ORGANISM: Arabidopsis thaliana
64 <400> SEQUENCE: 5
65 gaagatcttag aatatata tattcactag ttgcgaagac cttcc 46
68 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002

TIME: 11:40:02

Input Set : A:\050229-0287 Sequence Listing.txt

Output Set: N:\CRF3\02222002\I973945A.raw

69 <211> LENGTH: 18
 70 <212> TYPE: DNA
 71 <213> ORGANISM: Escherichia coli
 73 <400> SEQUENCE: 6
 74 attgtgagcg ctcacaat 18
 77 <210> SEQ ID NO: 7
 78 <211> LENGTH: 31
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Escherichia coli
 82 <400> SEQUENCE: 7
 83 ctcttaattt tgagcgctca caatgaaaaa g 31
 86 <210> SEQ ID NO: 8
 87 <211> LENGTH: 31
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Escherichia coli
 91 <400> SEQUENCE: 8
 92 ctttttcatt gtgagcgctc acaatttagaa g 31
 95 <210> SEQ ID NO: 9
 96 <211> LENGTH: 16
 97 <212> TYPE: DNA
 98 <213> ORGANISM: Arabidopsis thaliana
 100 <400> SEQUENCE: 9
 101 gaatatataat atattc 16
 104 <210> SEQ ID NO: 10
 105 <211> LENGTH: 16
 106 <212> TYPE: DNA
 107 <213> ORGANISM: Arabidopsis thaliana
 109 <400> SEQUENCE: 10
 110 gaatatataat atattc 16
 113 <210> SEQ ID NO: 11
 114 <211> LENGTH: 29
 115 <212> TYPE: DNA
 116 <213> ORGANISM: Arabidopsis thaliana
 118 <400> SEQUENCE: 11
 119 ctcttagaat atatatataat tcgaaaaag 29
 122 <210> SEQ ID NO: 12
 123 <211> LENGTH: 29
 124 <212> TYPE: DNA
 125 <213> ORGANISM: Arabidopsis thaliana
 127 <400> SEQUENCE: 12
 128 ctttttcgaa tatatatata ttcttagaaag 29
 131 <210> SEQ ID NO: 13
 132 <211> LENGTH: 29
 133 <212> TYPE: DNA
 134 <213> ORGANISM: Arabidopsis thaliana
 136 <400> SEQUENCE: 13
 137 ctcttagaat atatgtatata tcgaaaaag 29
 140 <210> SEQ ID NO: 14
 141 <211> LENGTH: 29

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002
TIME: 11:40:02

Input Set : A:\050229-0287 Sequence Listing.txt
Output Set: N:\CRF3\02222002\I973945A.raw

142 <212> TYPE: DNA
143 <213> ORGANISM: Arabidopsis thaliana
145 <400> SEQUENCE: 14
146 ctttttcgaa tatacatata ttctagaag 29
149 <210> SEQ ID NO: 15
150 <211> LENGTH: 29
151 <212> TYPE: DNA
152 <213> ORGANISM: Arabidopsis thaliana
154 <400> SEQUENCE: 15
155 cttctaacct atatatatatat tcgaaaaaag 29
158 <210> SEQ ID NO: 16
159 <211> LENGTH: 29
160 <212> TYPE: DNA
161 <213> ORGANISM: Arabidopsis thaliana
163 <400> SEQUENCE: 16
164 ctttttcgaa tatatatata ggttagaag 29
167 <210> SEQ ID NO: 17
168 <211> LENGTH: 29
169 <212> TYPE: DNA
170 <213> ORGANISM: Arabidopsis thaliana
172 <400> SEQUENCE: 17
173 cttctagaag cgatatatatat tcgaaaaaag 29
176 <210> SEQ ID NO: 18
177 <211> LENGTH: 29
178 <212> TYPE: DNA
179 <213> ORGANISM: Arabidopsis thaliana
181 <400> SEQUENCE: 18
182 ctttttcgaa tatatatcgc ttctagaag 29
185 <210> SEQ ID NO: 19
186 <211> LENGTH: 29
187 <212> TYPE: DNA
188 <213> ORGANISM: Arabidopsis thaliana
190 <400> SEQUENCE: 19
191 cttctagaat atcgcgatat tcgaaaaaag 29
194 <210> SEQ ID NO: 20
195 <211> LENGTH: 29
196 <212> TYPE: DNA
197 <213> ORGANISM: Arabidopsis thaliana
199 <400> SEQUENCE: 20
200 ctttttcgaa tatcgcgata ttctagaag 29
203 <210> SEQ ID NO: 21
204 <211> LENGTH: 29
205 <212> TYPE: DNA
206 <213> ORGANISM: Arabidopsis thaliana
208 <400> SEQUENCE: 21
209 cttctagaat atctatatatat tcgaaaaaag 29
212 <210> SEQ ID NO: 22
213 <211> LENGTH: 29
214 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002
TIME: 11:40:02

Input Set : A:\050229-0287 Sequence Listing.txt
Output Set: N:\CRF3\02222002\I973945A.raw

215 <213> ORGANISM: Arabidopsis thaliana
217 <400> SEQUENCE: 22
218 ctttttcgaa tatatagata ttctagaag 29
221 <210> SEQ ID NO: 23
222 <211> LENGTH: 29
223 <212> TYPE: DNA
224 <213> ORGANISM: Arabidopsis thaliana
226 <400> SEQUENCE: 23
227 ctcttagaat atagatatat tcgaaaaaag 29
230 <210> SEQ ID NO: 24
231 <211> LENGTH: 29
232 <212> TYPE: DNA
233 <213> ORGANISM: Arabidopsis thaliana
235 <400> SEQUENCE: 24
236 ctttttcgaa tatatctata ttctagaag 29
239 <210> SEQ ID NO: 25
240 <211> LENGTH: 29
241 <212> TYPE: DNA
242 <213> ORGANISM: Arabidopsis thaliana
244 <400> SEQUENCE: 25
245 ctcttagaat atatctatat tcgaaaaaag 29
248 <210> SEQ ID NO: 26
249 <211> LENGTH: 29
250 <212> TYPE: DNA
251 <213> ORGANISM: Arabidopsis thaliana
253 <400> SEQUENCE: 26
254 ctttttcgaa tatagatata ttctagaag 29
257 <210> SEQ ID NO: 27
258 <211> LENGTH: 29
259 <212> TYPE: DNA
260 <213> ORGANISM: Arabidopsis thaliana
262 <400> SEQUENCE: 27
263 ctcttagaat atatagatat tcgaaaaaag 29
266 <210> SEQ ID NO: 28
267 <211> LENGTH: 31
268 <212> TYPE: DNA
269 <213> ORGANISM: Arabidopsis thaliana
271 <400> SEQUENCE: 28
272 ctttttcgaa tatcttatata tattctagaa g 31
275 <210> SEQ ID NO: 29
276 <211> LENGTH: 16
277 <212> TYPE: DNA
278 <213> ORGANISM: Arabidopsis thaliana
280 <400> SEQUENCE: 29
281 gaatatatgt atattc 16
284 <210> SEQ ID NO: 30
285 <211> LENGTH: 16
286 <212> TYPE: DNA
287 <213> ORGANISM: Arabidopsis thaliana

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002
TIME: 11:40:02

Input Set : A:\050229-0287 Sequence Listing.txt
Output Set: N:\CRF3\02222002\I973945A.raw

289 <400> SEQUENCE: 30
290 accttatatat atattc 16
293 <210> SEQ ID NO: 31
294 <211> LENGTH: 16
295 <212> TYPE: DNA
296 <213> ORGANISM: Arabidopsis thaliana
298 <400> SEQUENCE: 31
299 gaagcgatata tattc 16
302 <210> SEQ ID NO: 32
303 <211> LENGTH: 16
304 <212> TYPE: DNA
305 <213> ORGANISM: Arabidopsis thaliana
307 <400> SEQUENCE: 32
308 gaatatcgatata tattc 16
311 <210> SEQ ID NO: 33
312 <211> LENGTH: 16
313 <212> TYPE: DNA
314 <213> ORGANISM: Arabidopsis thaliana
316 <400> SEQUENCE: 33
317 gaatatctatata tattc 16
320 <210> SEQ ID NO: 34
321 <211> LENGTH: 16
322 <212> TYPE: DNA
323 <213> ORGANISM: Arabidopsis thaliana
325 <400> SEQUENCE: 34
326 gaatatacatata tattc 16
329 <210> SEQ ID NO: 35
330 <211> LENGTH: 16
331 <212> TYPE: DNA
332 <213> ORGANISM: Arabidopsis thaliana
334 <400> SEQUENCE: 35
335 gaatataatctata tattc 16
338 <210> SEQ ID NO: 36
339 <211> LENGTH: 16
340 <212> TYPE: DNA
341 <213> ORGANISM: Arabidopsis thaliana
343 <400> SEQUENCE: 36
344 gaatataatata tattc 16
347 <210> SEQ ID NO: 37
348 <211> LENGTH: 16
349 <212> TYPE: DNA
350 <213> ORGANISM: Arabidopsis thaliana
352 <220> FEATURE:
353 <221> NAME/KEY: misc_feature
354 <222> LOCATION: (1)..(6)
355 <223> OTHER INFORMATION: N can be any nucleotide
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (7)..(10)

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/973,945A

DATE: 02/22/2002

TIME: 11:40:03

Input Set : A:\050229-0287 Sequence Listing.txt
Output Set: N:\CRF3\02222002\I973945A.raw

L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37